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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/880,457

DATE: 06/28/2001
TIME: 14:48:08

Input Set : A:\P2871R1.txt
Output Set: N:\CRF3\06282001\I880457.raw

3 <110> APPLICANT: Pan, James
 4 Goddard, Audrey
 5 Wood, William I.
 7 <120> TITLE OF INVENTION: NS4 Nucleic Acids and Polypeptides and Methods of Use
 8 for the Treatment of Body Weight Disorders
 10 <130> FILE REFERENCE: P2871R1
 W--> 12 <140> CURRENT APPLICATION NUMBER: US/09/880,457
 12 <141> CURRENT FILING DATE: 2001-06-12
 14 <150> PRIOR APPLICATION NUMBER: US 60/212,901
 15 <151> PRIOR FILING DATE: 2000-06-20
 17 <160> NUMBER OF SEQ ID NOS: 9
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 1161
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Homo sapiens
 24 <400> SEQUENCE: 1
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 27 gggaaatggag gggAACCTGC aggggctatgt tccttaccctc cagcaggcag 100
 29 cagctaattc ctgagggat aaggacgtgg ttgcgaggac atggaggaa 150
 31 agttctacag aggaggcaca gtgggcttca ggaacaccct gctttagagg 200
 33 cctgtgagag gtgggaaatc aatacctgac ctcgtctcc ttccatctct 250
 35 ccccaaccctc cagggttgg tggggccccc acaggcgcgc ctcccgggga 300
 37 gagaagtggg gagaggacat ggaggccat tagaaggat gcacacaagt 350
 39 atctacaagg caccaggcat ttttgagca tttggattt gtcagcaaac 400
 41 aagtcaagaca aaaaaccttg ctctggtgg aggacattc tagcaaagga 450
 43 aggcaaatga caagcaggag aagtatttgc taagaatggc aatcctgacg 500
 45 ctcagccttc aactcatctt gtttataata ccatcaatat cccatgaggc 550
 47 tcataaaaacg agtctttctt cttggaaaca tgaccaagat tgggcaaacg 600
 49 tctccaaat gactttcagc aacggaaaaac taagagtcaa aggcatattat 650
 51 taccggaaatg ccgacatttg ctctcgacat cgcgtaacct cagcaggcct 700
 53 aactctgcag gacccatcagc tatgggtgtaa tttgagaatc attcactgag 750
 55 catcaactat gtaaccagca ttgggttggg tgccagagat ccaaagctaa 800
 57 gacaccaaaa cctgcctcc agggaaacgag aggctgagaa gagggccagc 850
 59 aggtgtctgt cagtaattgg agccgtgaga gcaggagtg ggtgctggc 900
 61 tgaggaacca gaggtaatgg ccctggggac gcccgggaag agatgagtt 950
 63 tgaggcaaaat ggatttgcattt tttttttttt tttttttttt 1000
 65 gctgaagttg taactctgaa ccacaggaca aagcatgatg tgatgtcttc 1050
 67 ctcactaaat ggcaatgtcc ttgagaagac cctgtcttaa tcatctctgt 1100
 69 gtctcagcggcc tggctataa catatgctta tcgcatgctt ttaataaaag 1150
 71 gaggaaaaatg c 1161
 73 <210> SEQ ID NO: 2
 74 <211> LENGTH: 2412
 75 <212> TYPE: DNA
 76 <213> ORGANISM: Homo sapiens
 78 <400> SEQUENCE: 2
 79 ggtggagcca aataaggaa tgaaagcagg ccacccggagc ctcggagagg 50
 81 caaccgtttt gggtaactctt ccacactgtg gcagcttgc tctttgc 100

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83 tttgcagtaa gtttgctgt tgcttactct ttgggtctgc actgcctta 150
 85 tgaactgtaa cactgaccat ggaggtctgc agttcaactc ctcaagccag 200
 87 caagaccagg agcccaactgg gaggaggaat gaacaactct ggacacgcca 250
 89 cccttaagag ctgttaacact caccgcgacg gtctgcagct tcactccctga 300
 91 agtcagcgag accacaaacc caccagaagg aagaaaatcc ggacacatct 350
 93 gaacatctga gggactccg cacacaccat cttaagaac tgtaacactc 400
 95 accacgaggg cccgtggctt cattcttga gtcagcaaga ccaagaacccc 450
 97 accaattctg gacacaacag gacacacaca tgggaggggg aggccagagg 500
 99 gaaaccttagc tggcttgggg tggaaattt aatcccttag cccatcttct 550
 101 tctttcacca ctttgtccgg tgacattagg accaaccaac caatgccatt 600
 103 atatttctta gtttacaaga aaatgttga agttctcatc cacagaatca 650
 105 cttagcttct tgctttttac aagtgggtga ttaggaggtat tcaatacaga 700
 107 ttttgttat cactataaac agttcacagc atggactact ggtgttctct 750
 109 ttactaactg aaatgggtgc attagcacct ttaaatctaa tccattttaga 800
 111 gagccagttc cgaaaaccc agaaccagg tggaaaactt ccgttcttct 850
 113 gaagccattt ttgaaaccac atctgtgcta ggttctccag gaaaacagaa 900
 115 ccaatatgtt ttatttacta tggggactgg ctcatatgat tctggaggcc 950
 117 tagaagtccc tccctctcaa gatgtgtctg cagcaagctg cagaaccagg 1000
 119 aaagctggtg gtgtcagagt ctgaaggcct gagaactggg tggggagtgg 1050
 121 gacagactaa gggccttta gtctctgggt tgggtgtggc cccacaggtg 1100
 123 agccttcgt ggagaagggt ggagagggga tctggaaaggg ccaatagaag 1150
 125 atactcagca ctaagagacc tttggactca gaccagaact tacaccattc 1200
 127 attcatttcag tcggtgaaaa tgtattgacc actgtatcaa ccaggattgt 1250
 129 gacacaaaaa cagatggcac actcaaaaaga ggataattca agaaggcctt 1300
 131 cttaaggga ctatccc agatgggaat ggaggggaac ctgcaggct 1350
 133 agtgcctac cttccagcag gcagcagcta attcctgagg ggataaggac 1400
 135 gtggttgcga ggacatggag ggaaagttct acagaggagg cacagtggc 1450
 137 ttcaggaaaca ccctgcttga gaggcctgtg agagggattt ttttctactg 1500
 139 ttgacatcc acgtaaccc ctaacgtgt ctggggaaaga tgctacccc 1550
 141 tgctctcccc gtcttcctg cactctcagc aatggatgg gctgactgat 1600
 143 gcccgtggg ctggaaagct gaccacagtt gctgcagacc agacccctc 1650
 145 acatagttag tgctggctg aggaatccag gagagcccga ggggggacac 1700
 147 tgaagggtta tcgttggccc tgccagctgc aagtgaactg cttctgatga 1750
 149 attttaaatag ggagaaagaa gtatttgcata agaatggcaa tcctgatgct 1800
 151 cagccttcaa ctcatcttgc tattaatacc atcaatatcc catgaggctc 1850
 153 ataaaacagag tctttcttct tggaaacatg accaagattt ggcaaacgtc 1900
 155 tccaacatga ctttcagcaa cggaaaacta agagtcaaag gcatttatta 1950
 157 ccggaatgcc gacatttgc tctgacatcg cgtAACCTCA gcaggcctaa 2000
 159 ctctgcagga ctttcagcta tggtgtaatt tgaggtcagt ggccagagga 2050
 161 cagatcccgat ctacattatg agtgaagcgg agagctactg cagggttctg 2100
 163 agcagagttcc taatttataat tttagaaagaa tcacatggc tccttagatta 2150
 165 ggaataaaac gaagggggccc agggatggaa acgtgagtc cagttgggtt 2200
 167 actgcaaaga tccaggccag aaatccaggc acagtggcac acacctgagt 2250
 169 cccagataat tccacactt ggtcctgtct tggggctac tggccggagt 2300
 171 ccagccccga ctgatttctg ggcctgtaaat gtctaaaaac gctccctgct 2350
 173 gatgttttgc aagtgtactgt gttacttgaa ggcagttct aggataaaact 2400
 175 agtcgcttta tc 2412
 177 <210> SEQ ID NO: 3
 178 <211> LENGTH: 1186

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179 <212> TYPE: DNA
180 <213> ORGANISM: Homo sapiens
182 <400> SEQUENCE: 3
183 aaaaaataca gcaggtgaag gaggttggag agtagggggg ggagggccca 50
185 cgcagcaattt gtccttcacc ctggagggga tctgttacat gccccagatt 100
187 gctggcccccc tagaaatgtt actgaggcag cctctgcatt tttgcaggga 150
189 ttgtttctta ctgttgcaca ttcacgtaac ctccctaacgc tgtctgggg 200
191 agatgttacc ccctgtcttc cccgtcttcc ctgcactctc agcaatggga 250
193 tgggctgact gatgcctgtt gggctggaaa gctgaccaca gttgctgcag 300
195 accagacccc ctcacatagt gagtgcgtgg ctgaggaatc caggagagcc 350
197 cgagggggga cactgaaggt gtatcgttgg ccctgcccgc tgcaagtgaa 400
199 ctgcttctga tgaattttaa tagggagaaa gaagtatttgc ctaagaatgg 450
201 caatccgtac gctcagcctt caactcatct ttttattaaat accatcaata 500
203 tcccatgagg ctcataaaac gagtcttct ttttggaaac atgaccaaga 550
205 ttgggcaaaac gtctccaaca tgactttcag caacggaaaa ctaagagtca 600
207 aaggcattta ttaccggaaat gcccacattt gctctcgaca tcgcgttaacc 650
209 tcagcaggcc taactctgca ggaccttcag ctatgggtta atttgggtc 700
211 agtggccaga ggacagatcc cgtctacattt atgagtgaag cggagagcta 750
213 ctgcagggtt ctgagcagag ttcttaatttata tatttttagaa gaatcatcat 800
215 ggctcctttaga ttaggaataa aacgaagggg cccagggatg gaaacgtgaa 850
217 gtccagttgg gttactgca agatccaggc cagaaatcca ggcacagtgg 900
219 cacacacctg agtcccagat aattccaccc actggccttgc ctctgtggcc 950
221 tactggtccg agtcccagccc cgactgattt ctgggcctgtt aatgtctaaa 1000
223 aacgcctccct gctgatgttt tgcaagtgcac tttttttttttaa gaaggcagtt 1050
225 cctaggataa actagtcgtt ttatcatttttca agaatcatttcc actgagacatc 1100
227 aactatgtaa ccagcattgg gttgggtgcc agagatccaa agctaagaca 1150
229 ccaaaacctg ctctccagga aacgagaggc tgagaa 1186
231 <210> SEQ ID NO: 4
232 <211> LENGTH: 87
233 <212> TYPE: PRT
234 <213> ORGANISM: Homo sapiens
236 <400> SEQUENCE: 4
237 Met Ala Ile Leu Thr Leu Ser Leu Gln Leu Ile Leu Leu Leu Ile
238 1 5 10 15
240 Pro Ser Ile Ser His Glu Ala His Lys Thr Ser Leu Ser Ser Trp
241 20 25 30
243 Lys His Asp Gln Asp Trp Ala Asn Val Ser Asn Met Thr Phe Ser
244 35 40 45
246 Asn Gly Lys Leu Arg Val Lys Gly Ile Tyr Tyr Arg Asn Ala Asp
247 50 55 60
249 Ile Cys Ser Arg His Arg Val Thr Ser Ala Gly Leu Thr Leu Gln
250 65 70 75
252 Asp Leu Gln Leu Trp Cys Asn Leu Arg Ile Ile His
253 80 85
255 <210> SEQ ID NO: 5
256 <211> LENGTH: 94
257 <212> TYPE: PRT
258 <213> ORGANISM: Homo sapiens
260 <400> SEQUENCE: 5

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261 Met Ala Ile Leu Met Leu Ser Leu Gln Leu Ile Leu Leu Ile
262 1 5 10 15
264 Pro Ser Ile Ser His Glu Ala His Lys Thr Ser Leu Ser Ser Trp
265 20 25 30
267 Lys His Asp Gln Asp Trp Ala Asn Val Ser Asn Met Thr Phe Ser
268 35 40 45
270 Asn Gly Lys Leu Arg Val Lys Gly Ile Tyr Tyr Arg Asn Ala Asp
271 50 55 60
273 Ile Cys Ser Arg His Arg Val Thr Ser Ala Gly Leu Thr Leu Gln
274 65 70 75
276 Asp Leu Gln Leu Trp Cys Asn Leu Arg Ser Val Ala Arg Gly Gln
277 80 85 90
279 Ile Pro Ser Thr
282 <210> SEQ ID NO: 6
283 <211> LENGTH: 95
284 <212> TYPE: PRT
285 <213> ORGANISM: Homo sapiens
287 <400> SEQUENCE: 6
288 Met Ala Ile Leu Thr Leu Ser Leu Gln Leu Ile Leu Leu Ile
289 1 5 10 15
291 Pro Ser Ile Ser His Glu Ala His Lys Thr Ser Leu Ser Ser Trp
292 20 25 30
294 Lys His Asp Gln Asp Trp Ala Asn Val Ser Asn Met Thr Phe Ser
295 35 40 45
297 Asn Gly Lys Leu Arg Val Lys Gly Ile Tyr Tyr Arg Asn Ala Asp
298 50 55 60
300 Ile Cys Ser Arg His Arg Val Thr Ser Ala Gly Leu Thr Leu Gln
301 65 70 75
303 Asp Leu Gln Leu Trp Cys Asn Leu Arg Ser Val Ala Arg Gly Gln
304 80 85 90
306 Ile Pro Ser Thr Leu
307 95
309 <210> SEQ ID NO: 7
310 <211> LENGTH: 27
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Cloning oligonucleotide
317 <400> SEQUENCE: 7
318 gattgggcaaa acgtctccaa catgact 27
320 <210> SEQ ID NO: 8
321 <211> LENGTH: 30
322 <212> TYPE: DNA
323 <213> ORGANISM: Artificial Sequence
325 <220> FEATURE:
326 <223> OTHER INFORMATION: Cloning oligonucleotide
328 <400> SEQUENCE: 8
329 ttggtcatgt ttccaaagaag aaagactcgt 30
331 <210> SEQ ID NO: 9

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Input Set : A:\P2871R1.txt
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332 <211> LENGTH: 61
333 <212> TYPE: DNA
334 <213> ORGANISM: Artificial Sequence
336 <220> FEATURE:
337 <223> OTHER INFORMATION: Cloning oligonucleotide
339 <400> SEQUENCE: 9
340 cagcaacgga aaactaagag tcaaaggcat ttattaccgg aatgccgaca 50
342 tttgctctcg a 61

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/880,457

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Input Set : A:\P2871R1.txt

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L:12 M:282 W: Numeric Field Identifier Missing, <140> CURRENT APPLICATION NUMBER: is Added.